

Abstract of the Invention

A scheduler in, for example, an off-load engine
5 reports events for processing data frames to processing engines. Each event to report has associated to it an event information to report to a respective processing engine for processing, for example, a data frame. Responsive to a prompt having a specified time, a processor looks up the event
10 information to report at the specified time in one or more memories. For each event information to report at the specified time, at least some of the event information is forwarded to the respective processing engine. A state machine is used as the processor to implement functionality of the
15 scheduler in hardware thereby providing off-loading of processing in the off-load engine from software to hardware.